

Notice of Allowability	Application No.	Applicant(s)	
	09/676,838	KARMOUCH ET AL.	
	Examiner	Art Unit	
	Grigory Gurshman	2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Pre-Brief Request filed 9/23/2005.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-9 are allowed.
2. The following is an examiner's statement of reasons for allowance:
 - 2.1 Referring to claims 1-4, Makarios discloses a tuple space-based coordination mechanism (see abstract). Makarios teaches an information space constructed to span a group of one or more server systems. The information space is based on the tuple-space paradigm. A coordination entity manages storage of tuples within the information space. Applications access tuples by consulting a local cache of known tuple locations. If the location of a tuple is known, access is directed to the known location. If the location is unknown, the coordination is queried to determine the correct tuple location. If a tuple has moved, the previously storing server generates a re-route exception. This causes the accessing application to query the coordination entity, retry the access, and update the local cache (see abstract and Fig.2). Makarios claims the method for information exchange and persistence, the method comprising the steps of: providing an information space distributed across multiple servers on a computer network for the distributed storage of tuples across the multiple servers; and providing a coordination entity, the coordination entity configured to provide storage location information of a tuple stored on a first server to a second server over the computer network in response to a request for the storage location information of the tuple (see column 5, lines 1-12).
 - 2.2 However, Makarios does not teach or suggest *at least one private tuple space within each of the sites for effecting intra-site communications between agents at each*

of the sites. The tuple space of Makarios is an aggregation of other diverse spaces and form a single large entry space (see column 2, lines 49-55). Furthermore, Makarios does not teach a Coordination Manager within each of the sites. The coordination entity of Makarios performs the different functional role than the Coordination Manager claimed by Applicant.

2.3 While Makarios teaches exchanging tuples between different sites, he does not teach authentication of the user requests prior to exchanging the tuples. Referring to the instant claims, Beser shows a private network (see Fig.1). Beser teaches that a cable modem termination system (i.e. Coordinator) receives the registration request message and uses the message integrity check value to authenticate the message (see abstract). Beser also teaches multiple encodings within a single message. There is at least one SPD 74 in TCD message 70. The parameters are encoded as SPD-TLV tuples (see column 10, lines 20-30). However, Beser does not teach or suggest a *private tuple space within each of the sites for effecting intra-site communications between agents at each of the sites.* Beser also does not teach or suggest a Coordination Manager within each of the sites. Therefore, the combination of Makarios and Beser does not render the claims 1-4 obvious.

2.4 Referring to claims 5-9, the combination of Makarios and Beser with Brickell does not render the instant claims obvious for the same reasons as stated above with reference to the independent claim 1.

3. In view of the reasons presented herein claims 1-9 are in condition for Allowance.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Grigory Gurshman whose telephone number is (571)272-3803. The examiner can normally be reached on 9 AM-5:30 PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571)272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571 273 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Grigory Gurshman
Examiner
Art Unit 2132


GILBERTO BARRON JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100